

CURRICULUM VITAE

Surname: Fanelli
Name: Vito
Place of Birth: Bari, Italy
Date of Birth: May 17, 1974

Work Positions:

Assistant Professor tenure track at the University of Turin, Turin
From 29/12/2011 – present

Attending Physician in the Intensive care Unit at Città della Salute e della Scienza di Torino - San Giovanni Battista Molinette Hospital, Turin (Department of Surgical Science, Section of Anaesthesiology and Intensive Care).
From 01/12/2004 – present

Education and Professional Experience:

-1990/1991: Secondary School Diploma in Classical Studies at the “Liceo Classico Statale Carmine Sylos” in Bitonto, Italy.

-22/10/1999: Degree in Medicine and Surgery at the University of Bari

-July 2000: Medical Board Examination for the Provincial Order of Medical Surgeons and Dentistry of Bari.

-November 2004: Specialization in Anaesthesiology and Critical Care at the University of Bari, with a final grade of 70/70.

-October 2005-December 2009: PhD in “Functional Genomics applied to Translational Research” at the Molecular Biotechnology Centre (MBC), University of Turin.

-September 2010-December 2011: Post Doctoral Fellowship at the Li Ka Shing Knowledge Institute of St. Michael's in Toronto, Canada.

Scientific Activity:

I have an interest in translational research in acute respiratory distress syndrome (ARDS) and ischemia reperfusion injury associated with lung transplantation. The studies are carried out in several *in vivo* and *ex vivo* animal models to understand the mechanisms that account for the pathogenesis and resolution of acute lung injury and pulmonary edema.

As well, I have an interest in clinical trials related to mechanical ventilation, ARDS and sepsis.

Awards:

Second prize for best oral presentation at Critical Care Day 2011 of Interdepartmental

Division of Critical Care, Toronto, ON; Canada.

Other Activities:

Reviewer for peer review international journals:

Critical Care Medicine
Intensive Care Medicine
Critical Care
Minerva Anestesiologica
American Journal of Lung and Cellular Molecular Biology
American Journal of Respiratory and Critical Care Medicine
PLOS one

Clinical Activity:

I am currently working in a general ICU at Città della Salute e della Scienza di Torino - Molinette Hospital in Turin, Italy. My clinical activity is focused on ICU patients suffering from ARDS, COPD and septic shock.

Moreover, in 2010 I became a member of a specialized multidisciplinary national team of experts responsible for patient therapy during the pandemic influenza emergency of H1N1, during which we applied techniques of unconventional ventilation support such as extracorporeal life support (ECMO).

Moreover, part of my clinical duty is to look after patients undergoing lung transplantation in the perioperative phase.

Academic Publications (Published Refereed Papers):

1. CPAP by helmet for treatment of acute respiratory failure after pediatric liver transplantation. Chiusolo F, **Fanelli V**, Ciofi Degli Atti ML, Conti G, Tortora F, Pariante R, Ravà L, Grimaldi C, de Ville de Goyet J, Picardo S. *Pediatr Transplant*. 2017 Nov 24.
2. **How to optimize the lung donor**. Sales G, Costamagna A, **Fanelli V**, Boffini M, Pugliese F, Mascia L, Brazzi L. *Minerva Anestesiol*. 2017 Sep 11
3. **Accuracy of esophageal pressure to assess transpulmonary pressure during mechanical ventilation**. Terragni P, Mascia L, **Fanelli V**, Biondi-Zoccai G, Ranieri VM. *Intensive Care Med*. 2017 Jan;43(1):142-143. doi: 10.1007/s00134-016-4589-8. Epub 2016 Oct 15. No abstract available. PMID: 27744540
4. Feasibility and safety of low-flow extracorporeal carbon dioxide removal to facilitate ultra-protective ventilation in patients with moderate acute respiratory

- distress syndrome. **Fanelli V**, Ranieri MV, Mancebo J, Moerer O, Quintel M, Morley S, Moran I, Parrilla F, Costamagna A, Gaudiosi M, Combes A. *Crit Care*. 2016 Feb 10;20:36. doi: 10.1186/s13054-016-1211-y.
5. Intratracheal Administration of Small Interfering RNA Targeting Fas Reduces Lung Ischemia-Reperfusion Injury. Del Sorbo L, Costamagna A, Muraca G, Rotondo G, Civiletti F, Vizio B, Bosco O, Martin Conte EL, Frati G, Delsedime L, Lupia E, **Fanelli V**, Ranieri VM. *Crit Care Med*. 2016 Mar 9. [Epub ahead of print]
 6. Multivariate projection method to investigate inflammation associated with secondary insults and outcome after human traumatic brain injury: a pilot study. Mazzeo AT, Filippini C, Rosato R, **Fanelli V**, Assenzio B, Piper I, Howells T, Mastromauro I, Berardino M, Ducati A, Mascia L. *J Neuroinflammation*. 2016 Jun 21;13(1):157. doi: 10.1186/s12974-016-0624-5.
 7. Neuromuscular Blocking Agent Cisatracurium Attenuates Lung Injury by Inhibition of Nicotinic Acetylcholine Receptor- α 1. **Fanelli V**, Morita Y, Cappello P, Ghazarian M, Sugumar B, Delsedime L, Batt J, Ranieri VM, Zhang H, Slutsky AS. *Anesthesiology*. 2015 Nov 5. [Epub ahead of print]. PMID: 26540149
 8. Ventilatory Management During Normothermic Ex Vivo Lung Perfusion: Effects on Clinical Outcomes. Terragni PP, **Fanelli V**, Boffini M, Filippini C, Cappello P, Ricci D, Del Sorbo L, Faggiano C, Brazzi L, Frati G, Venuta F, Mascia L, Rinaldi M, Ranieri VM. *Transplantation*. 2015 Oct 1. [Epub ahead of print]. PMID: 26425874
 9. Luo AA, **Fanelli V**, Spieth PM, Uhlig S, Laffey J, Slutsky AS, Zhang H. INF/IR-8: MIDKINE PLAYS A KEY ROLE IN THE PATHOGENESIS OF ACUTE LUNG INJURY. *Shock*. 2015 Oct;44 Suppl 2:9.
 10. Corcione S, Pagani N, Baietto L, **Fanelli V**, Urbino R, Ranieri VM, Di Perri G, D'Avolio A, De Rosa FG. Pharmacokinetics of high dosage of linezolid in two morbidly obese patients. *J Antimicrob Chemother*. 2015 May 8.
 11. Zhang R, Pan Y, **Fanelli V**, Wu S, Luo AA, Islam D, Han B, Mao P, Ghazarian M, Zeng W, Spieth PM, Wang D, Khang J, Mo H, Liu X, Uhlig S, Liu M, Laffey J, Slutsky AS, Li Y, Zhang H. Mechanical Stress Induces Lung Fibrosis via Midkine Signaling Pathway. *Am J Respir Crit Care Med*. 2015 May 6.

12. **Fanelli V**, Ranieri VM. Mechanisms and clinical consequences of acute lung injury. *Ann Am Thorac Soc*. 2015 Mar;12 Suppl 1:S3-8.

13. Del Sorbo L, Pisani L, Filippini C, **Fanelli V**, Fasano L, Terragni P, Dell'Amore A, Urbino R, Mascia L, Evangelista A, Antro C, D'Amato R, Sucre MJ, Simonetti U, Persico P, Nava S, Ranieri VM. Extracorporeal co2 removal in hypercapnic patients at risk of noninvasive ventilation failure: a matched cohort study with historical control*. *Crit Care Med*. 2015 Jan;43(1):120-7.

14. **Fanelli V**, Costamagna A, Ranieri VM. Extracorporeal support for severe acute respiratory failure. *Semin Respir Crit Care Med*. 2014 Aug;35(4):519-27.

15. Boffini M, Ricci D, Bonato R, **Fanelli V**, Attisani M, Ribezzo M, Solidoro P, Del Sorbo L, Ranieri VM, Rinaldi M. Incidence and severity of primary graft dysfunction after lung transplantation using rejected grafts reconditioned with ex vivo lung perfusion. *Eur J Cardiothorac Surg*. 2014 Nov;46(5):789-93.

16. **Fanelli V**, Vlachou A, Ghannadian S, Simonetti U, Slutsky AS, Zhang H. Acute respiratory distress syndrome: new definition, current and future therapeutic options. *J Thorac Dis*. 2013 Jun;5(3):326-34.

17. Terragni PP, Filippini C, Slutsky AS, Birocco A, Tenaglia T, Grasso S, Stripoli T, Pasero D, Urbino R, **Fanelli V**, Faggiano C, Mascia L, Ranieri VM. Accuracy of plateau pressure and stress index to identify injurious ventilation in patients with acute respiratory distress syndrome. *Anesthesiology*. 2013 Oct;119(4):880-9

18. Stratta C, Lavezzo B, Ballaris MA, Panio A, Crucitti M, Andruetto P, **Fanelli V**, Grosso Marra W, Ranieri MV, Salizzoni M. Extracorporeal membrane oxygenation rescue therapy in a case of portopulmonary hypertension during liver transplantation: a case report. *Transplant Proc*. 2013 Sep;45(7):2774-5.

19. **Fanelli V**, Geraci PM, Mascia L Non-heart beating donors (NHBD): is a "paradigm shift" feasible in Italy?. *Minerva Anesthesiol.* 2013 Dec;79(12):1444.
20. **Fanelli V**, Ranieri VM. When pressure does not mean volume? Body mass index may account for the dissociation. *Crit Care.* 2011 Mar 25;15(2):143. IF 4.931
21. **Fanelli V**, Spieth P, Zhang H. Forced oscillation technique: an alternative tool to define the optimal PEEP? *Intensive Care Med.* 2011 Apr 1. IF 5.168
22. **Fanelli V**, Mehta S. *Open the lung with high-frequency oscillation ventilation or conventional mechanical ventilation? It may not matter!* *Crit Care.* 2010 Dec 9;14(6):1010. IF 4.931
23. **Fanelli V**, Puntorieri V, Assenzio B, Martin EL, Elia V, Bosco M, Delsedime L, Del Sorbo L, Ferrari A, Italiano S, Ghigo A, Slutsky AS, Hirsch E, Ranieri VM. *Pulmonary-derived phosphoinositide 3-kinase gamma (PI3Kgamma) contributes to ventilator-induced lung injury and edema.* *Intensive Care Med.* 2010 Aug 19. IF 5.168
24. Martin EL, Souza DG, Fagundes CT, Amaral FA, Assenzio B, Puntorieri V, Del Sorbo L, **Fanelli V**, Bosco M, Delsedime L, Pinho JF, Lemos VS, Souto FO, Alves-Filho JC, Cunha FQ, Slutsky AS, Ruckle T, Hirsch E, Teixeira MM, Ranieri VM. *Phosphoinositide-3 kinase gamma activity contributes to sepsis and organ damage by altering neutrophil recruitment.* *Am J Respir Crit Care Med.* 2010 Sep 15;182(6):762-73. IF 10.689
25. **Fanelli V**, Mascia L *Anesthetic optimization for nonheartbeating donors.* *Curr Opin Anaesthesiol.* 2010 Jun;23(3):406-10. IF 2.665
26. Del Sorbo L, **Fanelli V**. *Infection versus innate immunity in septic shock.* *Minerva Anesthesiol.* 2009 Sep;75(9):482-3. IF 1.614
27. **Fanelli V**, Mascia L, Puntorieri V, Assenzio B, Elia V, Fornaro G, Martin EL, Bosco M, Delsedime L, Fiore T, Grasso S, Ranieri VM. *Pulmonary atelectasis during low stretch ventilation: "open lung" versus "lung rest" strategy.* *Crit Care Med.* 2009 Mar;37(3):1046-53. IF 6.373
28. Bosma K, **Fanelli V**, Ranieri VM. *Acute respiratory distress syndrome: update on the latest developments in basic and clinical research.* *Curr Opin Anaesthesiol.* 2005 Apr;18(2):137-45. IF 2.665
29. Grasso S, Terragni PP, Mascia L, **Fanelli V**, Quintel M, Herrmann P, Hedenstierna G, Slutsky AS, Ranieri VM. *Airway pressure-time curve profile*

- (stress index) detects tidal recruitment/hyperinflation in experimental acute lung injury. Crit Care Med. 2004 Apr;32(4):1018-27. IF 6.373
30. Grasso S, **Fanelli V**, Caffarelli A, Anaclerio R, Amabile M, Ancona G, Fiore T. *Effects of high versus low positive end-expiratory pressures in acute respiratory distress syndrome*. Am J Respir Crit Care Med. 2005 May 1;171(9):1002-8. Epub 2005 Jan 21. IF 10.689
31. Lionetti V, Lisi A, Patrucco E, De Giuli P, Milazzo MG, Ceci S, Wymann M, Lena A, Gremigni V, **Fanelli V**, Hirsch E, Ranieri VM. *Lack of phosphoinositide 3-kinase-gamma attenuates ventilator-induced lung injury*. Crit Care Med. 2006 Jan;34(1):134-41. IF 6.373

Book Chapters

Fanelli V, Granton J, Slutsky AS. *Ventilator Induced Lung Injury*. Charter 37. Principles of Critical Care (4 edition), 2011. Jesse Hall, MD and Gregory Schmidt, MD. McGRAW-HILL.

Fanelli V, MD, PhD¹ and Ranieri VM, MD¹ Failure to Ventilate. Oxford University Press (UK)

Vito Fanelli, Andrea Costamagna, Pierpaolo Terragni, and VM Ranieri. Low-flow ECMO and CO₂ Removal. In ECMO Extracorporeal Life Support in Adults. Editors F. Sangalli, N. Patroniti, A. Pesenti. Springer.

Vito Fanelli, Karen J Bosma, V. Marco Ranieri, and Arthur S Slutsky. *Modulation of Cytokines Network by Lung Protective Mechanical Ventilation Strategies*. Chapter 19 in Ventilation induced Lung Injury. LUNG BIOLOGY in HEALTH and DISEASE volume 215. 2006. Executive Editor: Claude Lenfant.

Grasso S, **Fanelli V**. *Monitoring Mechanical Ventilation*. Chapter 14 in Clinical Critical Care Medicine. 2006. Mosby Editor.

Fanelli V, Ferrari A, Bernardino Chiaia, Ranieri VM. *Respiration Measurements*. Wyley Enciclopedia of Biomedical Engineering. 2006. John Wiley & Sons Inc.

Fanelli V. Monitoraggio Respiratorio. Elementi di anesthesiologia e terapia intensiva. 2007. CG Ediz. Medico-Scientifiche.

Fanelli V, Verderosa I. Monitoraggio Emodinamico. Elementi di anesthesiologia e terapia intensiva. 2007. CG Ediz. Medico-Scientifiche

I authorize publication of personal data present in the current document

Turin, February 1th 2018